

BY: swikening

BORDER REV. DATE: FEB 7, 2012

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM DETECTORS FOR 5 INTERSECTIONS IN HARFORD COUNTY, MD. THE LOCATIONS ARE ALONG MD 7A (REVOLUTION ST) AT MD 490 (UNION AVE), LEWIS LANE, OLD BAY LANE, MD 7 (UNION AVE) AT CONGRESS AVE, AND MD 155 (LEVEL RD) AT BULLE ROCK PARKWAY.

MD 7A IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION
MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION
MD 155 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

INTERSECTION OPERATION

THE INTERSECTION OPERATIONS WILL REMAIN THE SAME EXCEPT FOR THE INSTALLATION OF AN EMERGENCY PRE-EMPTION PHASE.

CONTROLLER REQUIREMENTS

- MD 7A (REVOLUTION ST) AND MD 490 (UNION AVE)
THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED
- MD 7A (REVOLUTION ST) AND LEWIS LN
THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED
- MD 7A (REVOLUTION ST) AND OLD BAY LANE
THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED
- MD 7 (UNION AVE) AND CONGRESS AVE
THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED
- MD 155 (LEVEL RD) AND BULLE ROCK PKWY
THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.
ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-02 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 229-2381

MR. ROBERT SNYDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 229-2361

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. MICHAEL PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 229-2341

EQUIPMENT LIST "A"

- A. NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

EQUIPMENT LIST "C"

- C. NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

EQUIPMENT LIST "B"

- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

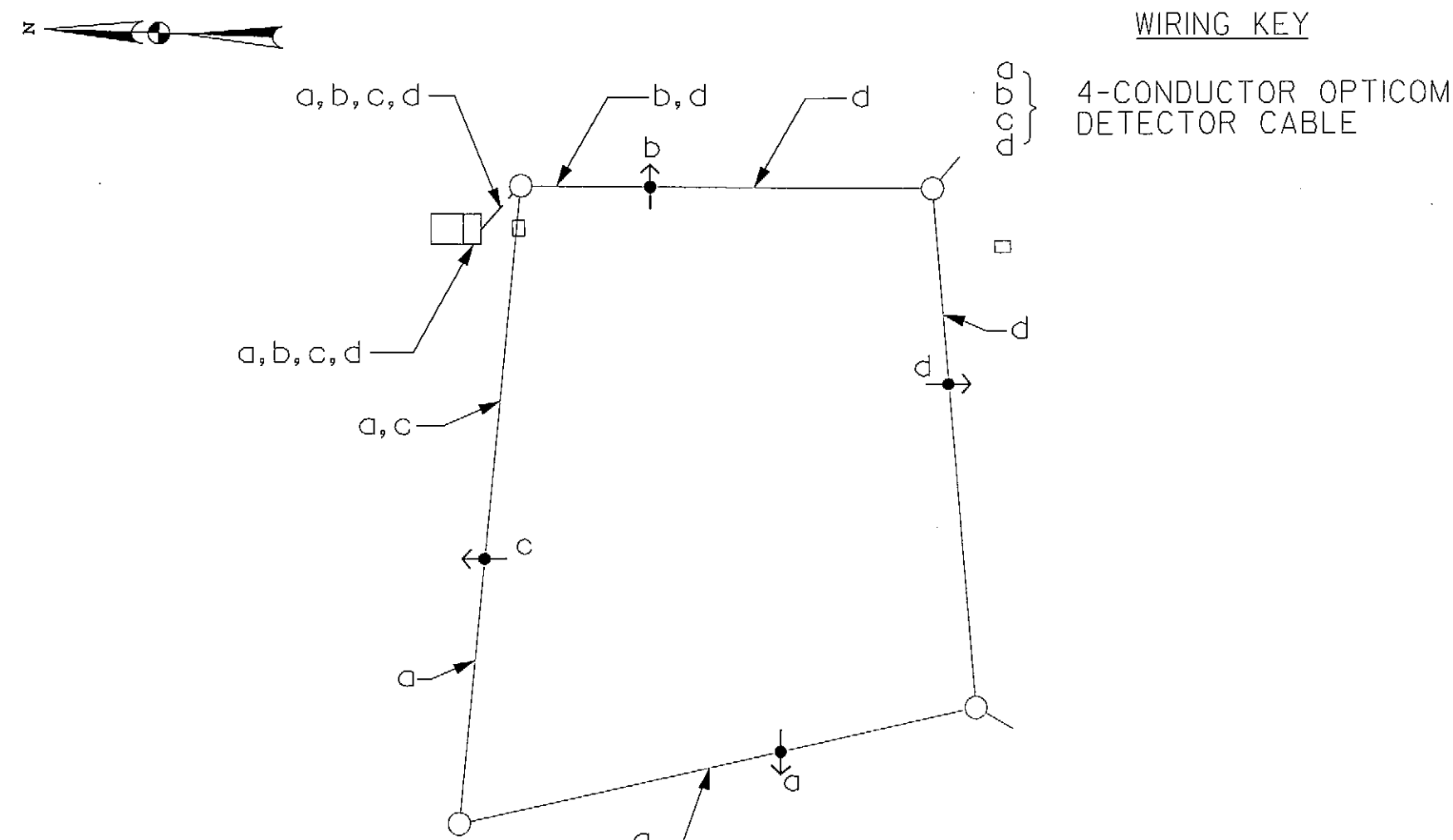
ITEM CODE	CATEGORY CODE	QTY	UNITS	DESCRIPTION
1001	100000	3	EA	MAINTENANCE OF TRAFFIC
8024	800000	1	EA	REMOVE AND DISPOSE OF EQUIPMENT
8033	800000	1840	LF	4 CONDUCTOR OPTICOM CABLE
8049	816201	5	EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8051	816215	17	EA	OPTICOM NO. 721 DETECTOR EYE

①
MD 7A (REVOLUTION ST)/REVOLUTION ST
AND MD 7A (S UNION AVE)/MD 490 (S UNION AVE)
TS NO. 1081B
LOGMILE 12A00701.46
PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 6	G	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
1 AND 6 CHANGE	G	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	R	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEAR /COUNTDOWN	G	G	G	G	R	R	R	R	FLDW	FLDW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	DW	DW	WK	WK	WK	WK
PED CLEAR /COUNTDOWN	R	R	R	R	G	G	G	G	DW	DW	FLDW	FLDW	FLDW	FLDW
4 AND 8 ALT. CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

EMERGENCY PRE-EMPTION 1+2														
EMERGENCY PRE-EMPTION 1 AND 2	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
EMERGENCY PRE-EMPTION 3+4														
EMERGENCY PRE-EMPTION 3 AND 4	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 NORMAL OPERATION	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW

WIRING DIAGRAM



WIRING KEY

a, b, c, d } 4-CONDUCTOR OPTICOM DETECTOR CABLE

②
MD 7A (REVOLUTION ST) AND LEWIS LN
TS NO. 1846B
LOGMILE 12A00700.90
PHASING CHART

	1	2	3	4	5	6
PHASE 2 AND 5	G	R	R	R	R	R
2 AND 5 CHANGE	G	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	G	G
4 CHANGE	R	R	R	R	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR

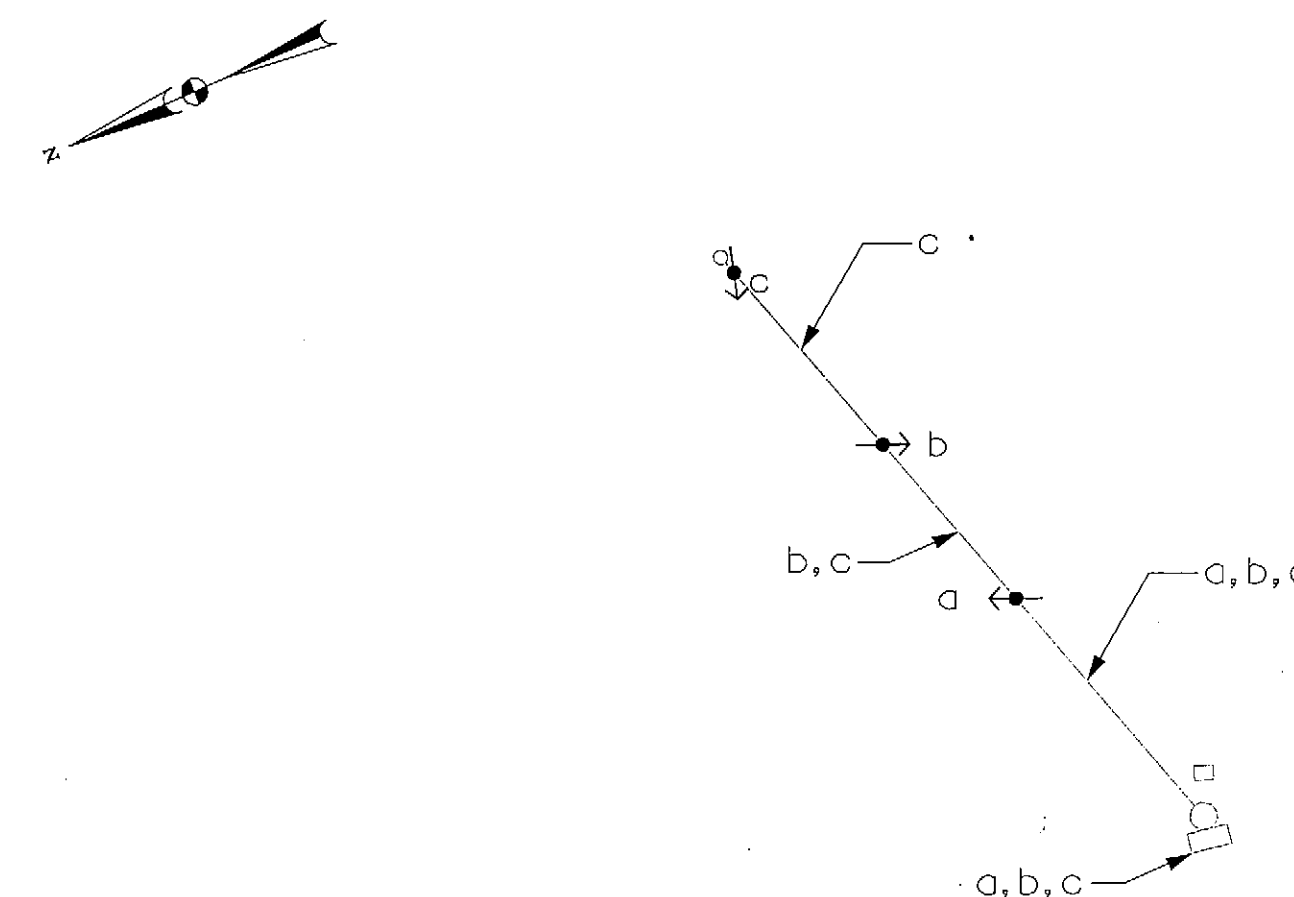
EMERGENCY PRE-EMPTION 1+2

EMERGENCY PRE-EMPTION 1 AND 2	G	G	G	G	R	R
PRE-EMPTION CLEARANCE	Y	Y	Y	Y	R	R
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	R	R

EMERGENCY PRE-EMPTION 3

EMERGENCY PRE-EMPTION 3	R	R	R	R	G	G
PRE-EMPTION CLEARANCE	R	R	R	R	Y	Y
PHASE 4 NORMAL OPERATION	R	R	R	R	G	G

WIRING DIAGRAM



WIRING KEY

a, b, c, d } 4-CONDUCTOR OPTICOM DETECTOR CABLE

TOD NO: XY125-07
SHA NO: HA400B53
MD 7A; MD 155 Various Locations



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 7A, MD 7 AND
MD 155 INTERSECTIONS**
HAVRE DE GRACE, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 5/07/2012 CONTRACT NO. XY125185

DESIGNED BY S. SALEM OF T3 COUNTY HARFORD
DRAWN BY J. SMITH OF T3 LOGMILE
CHECKED BY A. MORRIS OF T3 T.I.M.S. NO. L154
F.A.P. NO. TOD NO.

TS NO. DRAWING TSP-6 OF 7 SHEET NO. 6 OF 7

PLOTTED: Monday, May 07, 2012 AT 01:55 PM
FILE: Y:\12-0277-199 Opticom 5 signals\CADD\06-G101\Intersections 1-2.dgn